

KOLESHIN, S.G., doktor ekonomicheskikh nauk, professor.

Methods for the efficient organization of agricultural production.
Nauka i pered.op. v sel'khoz. 7 no.2:5-7 F '57. (MIRA 10:3)
(Agricultural policy)

KOLESHOV, S.O., prof.

Increased labor productivity. Nauka i pered. op. v sel'khoz. 7 no. 11;
41-43 N '57. (Agriculture) (MIRA 10+11)

~~KOLESNIKOV, S.G., prof.~~

Conditions for increasing the productivity of labor in agriculture.
Dokl. TSKhA no.27:5-13 '57.
(MIRA 11:4)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
nauk im. V.I. Lenina.

(Farm management)

KOLESNYK, S. G., akademik, red.; LAPTEV, I.D., red.; LOZA, G.M., prof., red.; MEL'NIKOV, V.F., kand.ekon.nauk, red.; MOISEYEV, M.I., red.; IVANOVA, A., red.; SMIRNOVA, Ye., tekhn.red.; PLEVZHER, V., tekhn.red.

[Triumphs of socialist agriculture in the U.S.S.R.] Pobedy sotsialisticheskogo sel'skogo khoziaistva SSSR. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1958. 430 p.
(MIRA 11:12)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im.V.I. Lenina (for Kolesnev). 2. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im.V.I.Lenina (for Moiseyev).
(Agriculture)

KOLESNYK, S.G., akademik

Further development of collective farming and reorganization of
machine-tractor stations. Izv. TSKhA no. 317-16 '58. (MIRA 11:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.
Lenina.

(Collective farms)
(Machine-tractor stations)

STARTSEV, D.; KOLESNIKOV, S., zasluzhennyy deyatel' nauki; BOLEV, V.; KHOROKHORIN, D.; SKURIKHIN, I.; KHOMELOV, Ye.; BUYANOV, I., dvukhdy Geroy Sotsialisticheskogo Truda; TROFIMOV, A.; STEPANOV, N.; FEDOTOV, S.

The road toward new achievements. Sots. trud. no. 4:14-36 Ap '58.
(MIRA 11:4)

1. Starshiy ekonomist Tsentral'nogo planovo-ekonomicheskogo upravleniya Ministerstva sel'skogo khozyaystva SSSR (for Startsev).
2. Chlen-korrespondent Vsesoyusnoy akademii sel'skokhozyaystvennykh nauk im. V.I. Lenina (for Kolesnev).
3. Zaveduyushchiy sektorom ekonomicheskogo stimulirovaniya sel'skokhozyaystvennogo proizvodstva Vsesoyusnoy akademii sel'skokhozyaystvennykh nauk im. V.I. Lenina (for Boyev).
4. Zaveduyushchiy sel'skokhozyaystvennym otdelom Moskovskogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza (for Khorokhorin).
5. Zaveduyushchiy kafedroy ekonomiki i organizatsii sel'skokhozyaystvennogo proizvodstva Ivanovskogo sel'skokhozyaystvennogo instituta (for Skurikhin).
6. Nachal'nik Spetsial'nogo konstruktorskogo byuro zavoda sel'mashin im. Uchitonskogo (for Khokhlov).
7. Predsedatel' kolhoza "Vernyy put'," Ivanovskogo rayona, Ivanovskoy oblasti (for Trofimov).
8. Glavnyy agronom Ramenskoy mashinno-traktornoy stantsii (for Stepanov).
9. Sekretar' partiynoy organizatsii Ramenskoy mashinno-traktornoy stantsii (for Fedotov).
10. Predsedatel' kolhoza im. Vladimira Il'icha (for Buyanov).

(Machine-tractor stations) (Collective farms)

KOLESNIKOV, S., prof.

Controlled grazing. Menika i pered. op. v sel'khoz. 8 no. 3;77 Mr
'58. (MIRA 11:3)
(Electric fences) (Grazing)

KOLESNEV S.G.

AUTHOR: Broder, K. SOV-25-58-10-18/48
TITLE: Speeches Made by Participants of the VSKhV (Slovo - uchastnikam VSKhV)
PERIODICAL: Nauka i zhizn', 1958, Nr 10, pp 33-41 (USSR)
ABSTRACT: The editorial staff of this journal organized a meeting of scientists and practical workers of the agricultural field, directors of the VSKhV and representatives of the press. The meeting heard the following reports: Boris Nikolayevich Bogdanov, Director of the VSKhV, on the great importance of the All-Union agricultural exhibition; S.G. Skobkin, Chief Methodologist of the VSKhV, on the achievements of Soviet agricultural sciences as represented by the exhibition; S.G. Kolesnev, Academician of VASKhNIL, on problems of economy in the agricultural field; S.I. Zlobin, representative of the kolkhoz imeni Stalin, Irbeyddy rayon, Krasnoyarsk kray, on the importance of the efficiency of labor for Siberia; F.N. Naumov, Head of the Krasnoshchekovskiy Rayon Executive Committee, on the complete utilization of Altay soil; M.I. Pulyayev, Director of the Sovkhoz "Rogachik", on the rapid development in cattle raising and the increase of agricultural produce; N.A. Chabanova, of the kolkhoz "Luch",

Card 1/2

Speeches Made by Participants of the VSKhv

SOV-25-58-10-18/48

Moscow Oblast', on her work and training in the kolkhoz; I.G. Sharabin, Professor of the Moskovskaya veterinarnaya akademiya (Moscow Veterinary Academy), on the research work exhibited by scientists for an increase in agricultural productivity; V.A. Shirshov, Candidate of Agricultural Sciences, Head of the radiobiologicheskaya laboratoriya Vsesoyuznogo nauchno-issledovatel'skogo instituta kormov imeni V.R. Vil'yams (Radiobiological Laboratory of the All-Union Scientific Research Institute of Fodder imeni V.R. Vil'yams), on isotopes in agriculture; Ural Sattorov, Head of the kolkhoz "Pobeda" Uzbek SSR, on the rapid development of cotton growing and cattle raising; F.Ye. Grushin, Director of the RTS pavilion, on the mechanization of agriculture; N.G. Chernenko, Head of the Moscow kolkhoz imeni Makarov on the importance of mechanization in agriculture. There are 13 photographs and 7 sketches.

1. Agriculture--USSR

Card 2/2

KOLESNEV, S.

Technical improvement and a progressive method of labor organization in agriculture. Sots. trud. 4 no.10:25-33 0 '59 (MIRA 13:3)
(Agriculture--Labor productivity)

KOLESEV, S.G., akademik

Dimensions of socialist agricultural enterprises. Izv. TSKhA no.5:
7-18 '59 (MIRA 13:3)
(Collective Farms) (State farms)

KOLESNYEV, Samuil Goergiyevich

Organizatsiya Sotsialisticheskikh Sel'Skokhozyaystvennykh
Predpriyatiy. Moskva, Sel'Khozgiz, 1960.
399 p. Illus., Diagrs., Tables. (Uchebniki I Uchebnyye
Posobiya Dlya Vysshikh Sel'Skokhozyaystvennykh Uchebnykh Zavedeniy)
Bibliographical footnotes.

KOLESNIKOV, S., akademik

Technological progress and the increase in labor productivity
in agricultural. Vop. ekon, no.2:54-63 P '60.
(MIRA 13:1)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. lenina.
(Agricultural machinery)
(Agriculture--Labor productivity)

KOLESHOV, S.G.

Main problem. Mauka i zhishn' 27 no.2:8-13 p '60.
(MIRA 13:6)

1. Deystvitel'nyy chlen Vsesoyusnoy akademii sel'skokhozyay-
stvennykh nauk im. Lenina.
(Russia--Economic conditions)

KOLESNIKOV, Samuil Georgiyevich, akademik; TABARUKHIN, A., red.; PAVLOVA, S.,
tekhn.red.

[On the most important factor] O samom glavnom. Moskva, Mosk.
rabocheii, 1960. 29 p. (MIRA 14:1)
(Agriculture--Labor productivity)

KOLESNY, Semenil Georgiyevich, prof., doktor ekonom.nauk, akademik;
MAKAROV, N.P., prof., nauchnyy red.; PYLAYEVA, A.P., red.;
PROKOF'YEVA, L.N., tekhn.red.

[Organization of socialist agricultural enterprises] Organizatsiya sotsialisticheskikh sel'skokhozisistvennykh predpriatii.
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 399 p.

(MIRA 13:12)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I. Lenina (for Kolesnev).

(Collective farms) (State farms)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1

KOLESNEV, S.; ZALTS'MAN, L.

Economic effectiveness of agricultural production ("Methods of determining the economic effectiveness of agricultural production."
Reviewed by S.Kolesnev, L.Zal'tzman). Vop. ekon. no.12:130-133 D '60.

(MIRA 13:12)

(Agriculture—Economic aspects)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1"

KOLESNEV, Samuil Georgiyevich; LEONOV, T.S., red.; RAKITIN, I.T.,
tekhn.red.

[How to increase labor productivity in agriculture] Kak povysit' proizvoditel'nost' truda v sel'skom khoziaistve. Moakva, Izd-vo "Znanie," 1961. 46 p. (Vsesoyuznoe obshchestvo po rasprostraneniu politicheskikh i nauchnykh znanii. Ser.5, Sel'skoe khoziaistvo, no.11).
(MIRA 14:6)

1. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Kolesnev).
(Agriculture—Labor productivity)

ZAL'TSMAN, L.M., prof., doktor sel'khoz. nauk, red.; OBOLENSKIY, K.P.,
kand. ekon. nauk, red.; KOLESNEV, S.G., akademik, red.;
GAPONENKO, G.S., kand. ekon. nauk, red.; RYBAKOVA, V.D., red.;
PONOMAREVA, A.A., tekhn. red.

[Distribution and specialization in U.S.S.R. agriculture] Voprosy razmeshcheniya i spetsializatsii sel'skogo khoziaistva
SSSR. Moskva, Ekonomizdat, 1962. 637 p. (MIRA 16:1)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni
V.I.Lenina (for Kolesnev).
(Agriculture)

KOLESNEV, S.G., akademik, red.; ZAPIVAKHIN, A.I., red.; LAPIDUS,
M.A., red.; RAKITINA, Ye.D., red.; TIKHOMOVA, Ye.M., red.;
DEYEVA, V.M., tekhn. red.

[Specialization and size of agricultural enterprises] Spe-
tsializatsiya i razmery sel'skokhoziaistvennykh predpriatiy.
Pod red. S.G.Kolesneva. Moskva, Sel'khozgdat, 1963, 382 p.

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im.
V.I.Lenina (for Kolesnev). (MIRA 16:7)
(Farm management)

KOLESNEV, S.G., akademik; OBUKHOVSKIY, V.M., kand. ekonom. nauk

Some methodological problems in computing the cost of production on
collective farms. Izv. TSKHA no.3. 1209-219 '63. (MIRA 16:9)
(Collective farms—Accounting)

KOLESNEV, S.G., akademik

Theory of specialization and concentration in agricultural production. Izv. TSKHA no.1:195-206 '64. (MIRA 17:4)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni Lenina i Kafedra organizatsii sotsialisticheskikh sel'skokhozyaystvennykh predpriyatiy Moskovskoy ordena Lenina sel'skokhozyaystvennoy akademii imeni Timiryazeva.

KOLESNEV, S.G., akademik; VEKSLER, Yu.F., starshiy nauchnyy sotrudnik,
kand. ekonom. nauk

Consistent deepening of specialization as the most important
condition for the intensification of agricultural production.
Izv. TSKHA no.5:27-38 '64. (MIRA 18:5)

1. Kafedra organizatsii sotsialisticheskikh sel'skokhozyaystvennykh predpriyatiy Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni Lenina (for Kolesnev). 2. Laboratoriya ekonomiceskikh issledovaniy Moskovskoy ordena Lenina sel'skokhozyaystvennoy akademii imeni Timiryazeva (for Veksler).

KOLESNIK, G.S., akademik, doktor ekonom. nauk

Urgent measures for the development of agriculture in the
U.S.S.R. Izv. TSKHA no.2:3-10 '65. (MIRA 18:9)

1. Kafedra organizatsii sotsialisticheskikh sel'skokhozyaystvennykh
predpriyatiy Moskovskiy sel'skokhozyaystvennoy akademii imeni
Timiryazeva, Vsesoyuznaya akademiya sel'skokhozyaystvennykh
nauki imeni Lenina.

MIGUNOV, Prof. B.I.; KOLESNEVA, Z.G.; CHUPRYNINA, N.M.

Eosinophilic granuloma of the jaws. Stomatologija no.3:29-33
May-June '55.
(MLRA 8:9)

1. Iz kafedry patologicheskoy anatomii (zav.prof B.I.Migunov)
i kafedra terapevticheskoy i khirurgicheskoy stomatologii
Moskovskogo meditsinskogo stomatologicheskogo instituta
(dir.dotsent, G.N. Beletskiy)

(EOSINOPHILIC GRANULOMA,
jaws)
(JAWS, neoplasms,
eosinophilic granuloma)

RUZANOV, Ye.; ANDREYEV, V.; KOLESNICHENKO, A.

Issuing credit to collective farms. Den. i kred. 18 no.48
56-62 Ap '60. (MIRA 13:4)

1. Upravlyayushchiy Kuybyshevskoy oblastnoy kontoroy Gosbanka
(for Ruzanov). 2. Upravlyayushchiy Pavlovskim otdeleniyem
Gosbanka Voronezhskoy oblasti (for Andreyev). 3. Upravlyayushchiy
Nevinnomysskim otdeleniyem Gosbanka Stavropol'skogo kraya (for
Kolesnichenko).

(Agricultural credit)

KOLESNICHENKO, A., POLETAYEVA, Ye.

Viticulture

Bond between science and industry is growing stronger. Vin. SSSR 12 No. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1953, Uncl.
2

KOLESNICHENKO, A.; AVDEYEV, M.

State Bank's business and people. Den. i kred. 20 nc.4:56-60
Ap '62. (MIRA 15:4)

1. Upravlyayushchiy Nevinnomysskim otdeleniyem Gosbanka
Stavropol'skogo kraya (for Kolesnichenko). 2. Upravlyayushchiy
Ul'yanovskim otdeleniyem Gosbanka Moskovskoy oblasti (for
Avdeyev).

(Banks and banking)

AUTHOR: Kolesnichenko, A.G. SOV/128-58-11-16/24

TITLE: Cast Iron Pouring Funnel (Chugunnyye litnikovyye voronki)

PERIODICAL: Liteynoye proizvodstvo, 1958, Nr 11, p 28 (USSR)

ABSTRACT: Pouring funnels, produced from a core mixture with a filter gauze, used for the production of piston rings at the Stavropol'skiy zavod porshnevykh kolets (Stavropol' Piston Ring Plant) were replaced by cast iron funnels coated with graphite paint, which considerably reduced production costs. There are 2 diagrams.

1. Funnels--Properties 2. Funnels--Performance

Card 1/1

KOLESNICHENKO, A.G., Cand Tech Sci -- (diss) "Investigation of certain properties of coverings for chill molds and their effect on the quality of thin-walled iron castings," Leningrad, 1960, 19 pp (Leningrad Polytechnical Institute im M. I. Kalinin) (KL, 36-60, 115)

KOLESENICHENKO A.

11

PLATE I BOOK EXPLOITATION 807/5304

Sistemnye po teorii literatury protsessov. 5th, 1959
 Technost' otvets' tsvetnoy sverobanchynya (Accuracy of Castings; Translations of the Fifth Conference on the Theory of Founding Processes)
 Professors Ed. of Publishing House: G. M. Sobolova, Tech. Ed.:
 L. P. Uvarova, Manager Ed. for Literature on Not-Processed
 Metals; G. M. Gal'yayev, Engineer.

Sponsoring Agency: Akademika nauch SSSR. Institut mashinovedeniya.

Konsultativnye po tekhnologii mashinostroyeniya.

Ed. (title page): B. N. Gal'yayev, Doctor of Technical Sciences.

Professor Ed. of Publishing House: G. M. Sobolova, Tech. Ed.:
 L. P. Uvarova, Manager Ed. for Literature on Not-Processed
 Metals; G. M. Gal'yayev, Engineer.

Purpose: This book is intended for scientists and technical personnel at scientific research institutes, factories, and schools of higher education.

Coverage: The book contains 19 reports read at a conference on the accuracy of castings. The conference was organized by the Committee on Processing in Machine Building and sponsored by the Institute of Metallurgy, All-SSSR (Institute of the Science of Machines of the Academy of Sciences USSR). The reports, presented by leading specialists, science workers, and production personnel, discuss the present state of the problems of the accuracy of castings and methods of solving the problems involved. There are 52 references, mostly Soviet.

Kosarov, L. Ye. [Engineer]. Distortion of Sand Molds

Zubakovskiy, G.-A. [Engineer], and Yu. G. san-chin [Engineer]. International Errors of Castings Caused by Patterns and Plastics 125

Dobrenko, A. N. [Engineer]. Effect of Thermal Distortion of the Molten Metal on the Accuracy of Castings 131

The work of investigating the distortions and thermal stresses in the molding mixture was carried out under the supervision of P. F. Kury.

Yaroshenko, S. I. [Engineer], and B. N. Gal'yayev. Production of Precision Castings in Shell Molds Pressed from a Materialless Mixture 146

Kolezhnik, I. P. [Engineer], and I. V. Borzhentsev [Engineer]. Production of Large Precision Steel Castings by Using Chemically Hardening Mixtures 153

Babtsov, M. M. [Doctor of Technical Sciences, Professor] and T. N. Zaitsev [Engineer]. Dimensional Accuracy of Investment Castings 160

Sorokin, I. I. [Candidate of Technical Sciences]. Dimensional Accuracy and Surface Roughness of Castings Obtained by Various Methods 166

O. A. Kantor, A. I. Danilov, A. I. Balyayev, and Bagisheev V. S. Shmel'yan participated in making castings.

Makogonik, M. P. [Engineer], and B. N. Gal'yayev. Formation of the Coatings of Castings in Die Casting 193

Vol'shchikova, O. [Engineer]. Accuracy of Castings Contaminated in Metal Molds 203

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CIA-RDP86-00513R000723730008-1

MIKULIN, S.A.; KOLESNIKOV, A.G.; RAYDAK, G.A.

Desulfuration of cast iron in ring foundry. Idt. proizv.
no.9:42 S '60. (MIRA 13:9)
(Iron founding) (Desulfuration)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1"

KOLESNICHENKO, A.Q.

Structure of the surface layers of iron chill castings. Lit. proizv.
no. 2:20-21 F '61. (MIRA 14:4)
(Cast iron—Metallography) (Iron founding)

KOLESNICHENKO, A.Q.; SHAPIRO, M.A.; VYSHEMIRSKIY, M.M.

Multilayer coatings of metal molds. Lit. proisv. no.5:45 My '62.
(MIRA 16:3)
(Moulding (Foundry))

KOLESNICHENKO, A.G.

Thermal insulation coverings of chills for thin-walled iron
castings. Lit. proizv. no. 3:30-32 Mr '65. (MIRA 18:6)

KOLESNICHENKO A.N.

2
S/3506/000/012/000/018
ACD/001

Authors: Shirobin, V. D.; Vinogradov, Yu. G.; Lopatin'ev, D. V.; Borodkin, S. Ye.
Kolesnichenko, A. N.; Ternovskiy, N. I.

Vibration-free Building of Parts With the Aid of the Autotrans-

AHKP-1 (AKDP-1) Head

Patentable Invention

The Technical Research Institute of Transport (Tsentrosvyaz) has developed a new method of submerged vibrations for building-up of parts (parts 1) made of the following stock. A thin metal layer of 0.3 - 3 mm is built up on the surface of the parts and securities. The building-up equipment, the special automatic HKP-1 head, was manufactured in cooperation with the design and planning office of the Observatory of Radioelectronics (Radioelektronika) Ministry of Transportation (Minstranspot) (Baltmash). The part being built up is clamped in the center of a lathe and rotates with a speed of 1-5 rpm while the head is walked off with the AKDP-1 head shown in the illustration 1 which also feeds the material by the A0-11-2 (AC-11-2) 150 v electromotor 1 which also feeds the

material.



Card 1/3

electrode wire to the part and produces the vibrations with the aid of two rods 2. Rods 3 serve as oscillations parallel to elliptical orbits. The vibration consists of an axial and two concentrically located buildings 4. The axis of the center building is displaced relative to the inner one by 1.5 mm, so that the total displacement can be varied from 0 to 3 mm. The model is connected to rod 5. At the end of the drive shaft the eccentric mechanism is driven above ground, so the tool is guided to the toothed wheel of the same shaft of the reducer. The num-

Card 2/3

ber of toothed wheels makes it possible to vary the number of secundary oscillations in the range of 20 - 57 cps. Electrode wire feed mechanism 6 is mounted on a plate fastened to the reducer housing. The driving roll for the wire feed is made of two disks and a set of rubber rings tightened by nut 7. The feed speed can be varied by 0.017 mm/min. The AKDP-1 head has a special ring 8 by which it is fastened to the cross slide of lathe. By the same connection the head with the wire, the former can be lifted by 200 mm from the bed in lower position. A cylindrical carriage over the screw makes it possible to tilt the head around the horizontal axis through 150°, while at the same time the vertical axis through 90°. The overall dimensions of the head (height, a length, a width) are 600 x 560 x 200 mm weight 50 kg. The building-up operations with the AKDP-1 head the standard clear grades AH-340 (AK-340) or CK-145 (CK-340) are used. The repair work of parts reconditioned by building-up amount to 10 - 30% of the manufacturing costs. See in 1 figure.

Card 3/3

KOLESNICHENKO, A.N., inzh.

Automatic pulsation-arc hard facing device. Energ. stroi.
no.27:36-39 '62. (MIRA 15:9)

1. Proyektno-konstruktorskoye byuro Glavnogo upravleniya
mekhanizatsii stroitel'stva Ministerstva transportnogo
stroitel'stva SSSR.

(Hard facing)

AL'TSHULER, Ya.A., inzh.; KOLESNICHENKO, A.N., inzh.; LIPKOVICH, M.I., inzh.

Electric corrections of the scales of logarithmic color pyrometers.
Priborostroenie no.2+3-5 F '65. (MIRA 18;3)

■ - 0 ■■■

Source Job#: JK 343/SC/003/0091/0092

AUTHORS: Al'tshuler, Ya. A.; Lipkovich, M. I.; Kolesnichenko, A. N.

: none

TITLE: Multiposition photoelectric temperature signaler. Class 42, No. 178579
Inventor by State Construction Bureau "Thermal Instruments" (Gosudarstvennoye
instruktorskoye byuro "Termopribor")

PATENT: Izobreteniya, promyshlennyye obraztsa, tovarnyye znaki, no. 3, 1966, 91-92

CLASS TABS: temperature gage, photoelectric pyrometer

ABSTRACT: This Author Certificate presents a multiposition photoelectric temperature
signal containing an optical system, a reference radiator, and an amplifier. To
allow for independent signaling of several levels of measured temperature with a
single temperature of the reference radiator, the signaler has several independent
temperature setters connected in parallel. The setters are in the form of amplifiers
with detecting indicators with anode circuits containing two parallel branches (see
Fig.). A variable load resistance and a semiconductor diode opposing the diode
in the other branch are connected in each branch. A switching voltage coil is

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UDC: 621.318.58-536.5

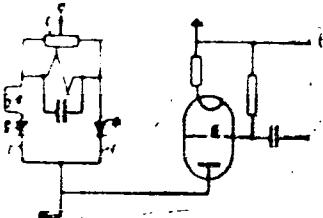


Fig. 1. 1 and 2 - parallel branches in
setter anode circuit; 3 - variable load
resistance; 4 and 5 - semiconductor
diodes; 6 - switching voltage coil.

connected in one of the branches in series with the diode. Orig. art. has: 1
diagram.

SUR CODE: 90, 09/ SUBM DATE: 21Aug63

Card 2/2 2

KOLESNICHENKO, A. S.

Over-all introduction of machinery and automation in production
processes of the merchant marine. Mor. flot 18 no. 7;3-4 Jl '58.
(MIRA 11:7)

1.Zamestitel' ministra morskogo flota.
(Merchant marine) (Automation)

over for Rad. James

KOLESNICHENKO, A. S.

AUTHOR: Zaytsev, I.A., Engineer SOV/122-58-6-34/37

TITLE: Scientific and Engineering Conference on Design and Construction Problems of Sea-going Merchant Vessels
(Nauchno-tehnicheskaya konferentsiya po voprosam proyektirovaniya i stroitel'stva morskikh transportnykh Sudov)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, Nr 6, pp 83-84 (USSR)

ABSTRACT: A conference on the above subject, convened in Leningrad by the ministries of the merchant marine and ship-building industry, with the participation of the scientific and engineering societies for water transport and the ship-building industry is reported. The administrative and technical executives of manufacturing plants, shipping lines, project and design offices and scientific research organisations, merchant marine and ship-building industry ministry staffs, officials of the Gosplan USSR, of the Leningrad Economic Council and other organisations took part. The work was conducted at plenary and section meetings. A.S. Kolesnichenko, deputy to the Minister of the Merchant Marine, in his introductory remarks, noted the achievements of Soviet ship-building, such as the atomic ice-breaker "Lenin", high-tonnage tankers and

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SOV/122-58-6-34/37

Scientific and Engineering Conference on Design and Construction
Problems of Sea-going Merchant Vessels

others, and elucidated the major problems requiring discussion. N.G. Bykov, Director of Administration of the Ministry of the Merchant Marine concerned with orders and supervision of ship-building construction, read a paper on sea-going merchant vessels intended for design and construction during the coming period, finishing in 1965. The basic types of ships earmarked for construction were listed, including tankers of 25 000 and 17 000-ton capacity, dry cargo vessels, timber transport, passenger vessels for scheduled line duties and others. He also discussed the technical and service requirements applicable to new ships. Special attention was devoted to the choice of propulsion machinery, the need to achieve familiarisation with the production of powerful slow-running diesel engines and the development of the manufacture of gas and steam turbines. G.V. Aseyev, Director of the Scientific Research Institute, reported on modern types of propulsion machinery for sea-going ships, their technical and economic suitability, effectiveness and development trends. The application of propulsion machinery of any kind, was guided at present primarily by production possibilities and only in the second

Card2/5

S/196/62/000/013/013/018
E194/E155

AUTHOR: Kolesnichenko, B.V.

TITLE: An automatic alternating current calculating board.

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika,
no.13, 1962, 12, abstract 13 E 83. (Tr. Kiyevsk.
politekhn. in-ta. Sb. statey elektrotehn. fak.
(Collected articles of the electrotechnical faculty).
Kiev, 1961, 81-89)

TEXT: A calculating board has been developed and erected in
the Kiyevskiy politekhnicheskiy institut (Kiev Polytechnical
Institute). It has an automatic telephone selector switch which
can be used to assemble the required circuit, to connect the
instruments, to measure resistances, voltages, currents and powers.
The system load is represented by two auto-transformers; ohmic
resistances are in the form of rheostats, their sliders set
according to the indications of the measuring instruments. The
circuit elements are connected together by groups of switching
relays. By the principle of inverse modelling it becomes possible

Card 1/2

ZORIN, V.V.; KOLESNICHENKO, B.V.

Voltage regulator for low-voltage networks. Energ. i
elektrotekh. prom. no.2:11-15 Ap-Je '62. (MIRA 15:6)

1. Kiyevskiy politekhnicheskiy institut.
(Electric power distribution)
(Voltage regulators)

KOLESNICHENKO, B.V., inzh.

Voltage regulation in municipal low-voltage distribution networks
assuring a minimum overall loss to recipients. Izv. vys. ucheb.
zav.; energ. 6 no.10:43-48 O '63. (MIRA 16:12)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut. Pred-
stavлено кафедрой elektricheskikh setey i sistem.

KOLESMICHENKO, D.A.; NEFEDOV, N.A.; KRYLOV, I.S.

Practical use of textelite fillers in the repair of worn-out
machine components. Stan.1 instr. 26 no.12:14-17 D '55.
(Machine tools) (MLRA 9:2)

KOLESNICHENKO, G., polkovnik

Critique of artillery fire is creative. Voen. vest. 42 no.5:
69-72 My '63. (MIRA 16:5)
(Russia--Army--Artillery)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1

KOLFSNICHENKO, G., polkovnik

In the struggle against slackenings and oversimplification.
Komm. Vooruzh. Sil 4 no. 13:30-34 J1 '64. (MIRA 17:7)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1

KCLESNICHENKO, G., polkovnik

Artillery marksmanship training of officers, Voen. vest.
43 no.2:68-71 F '64. (MIRA 17:1)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1

KOLESNICHENKO, G., polkovnik

A battery supports a battalion attacking on the march;
a tactical and drill exercise. Voen. vest. 43 no.5:70-72
Mys '64. (MIRA 17:6)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1

KOLESNICHENKO, G., polkovnik

The conditions are the same, but the results are different. Koval.
Voorush. Sil 46 no.16:57-61 Ag '65.

(MIRA 16:8)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1"

ORIENTLICHMAN, M., polkownik; KOLEZHICHENKO, G., polkownik

Competition in tasks and standards in actions: Guarantee of
success in a good organization. Komu Voorush. Sil, 46 no. 21,
56-57 N '65 (MIRA 19,1)

S/137/62/000/007/015/072
A052/A101

AUTHORS: Naydich, Yu. V., Kolesnichenko, G. A.

TITLE: Investigation of wetting graphite and diamond by molten metals and alloys. 1. Contact angles of some transition and non-transition metals on graphite. The wetting of graphite by copper-chromium alloys

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 7, 1962, 45, abstract 70311
("Poroshk. metallurgiya", no. 6, 1961, 55 - 61; English summary)

TEXT: The results of measuring contact angles and of calculating the adhesion work at the wetting of graphite by molten metals and their alloys (Cu, Ag, Sn, Al, Ni, Co, Fe, Pd and other) are described. Non-transition metals do not wet graphite with the exception of Al and Si forming carbides. Transition metals wet graphite well, forming contact angles of 50 - 70°, the adhesion work in this case being 1,500 - 3,000 erg/cm². This fact is connected with the structure of d-shells. The experiments have shown that the saturation of Fe, Ni, Co and Pd with carbon results in the increase of contact angles. Also concentra-

Card 1/2

Investigation of wetting graphite and...

S/137/62/000/007/015/072
A052/A101

tion, temperature and time dependences of wetting graphite by Cu-Cr alloys were studied.. Additions of 5 - 10% Cr increase considerably the degree of wetting graphite by copper; these alloys are worth testing as matrix binding of diamond drilling tools. The wetting of diamond is similar to that of graphite.

R. Andriyevskiy

[Abstracter's note: Complete translation]

Card 2/2

NAYDICH, Yu.V.; KOLESNICHENKO, G.A.

Investigating the wetting of diamonds and graphite by liquid metals. Porosh. met. 3 no.1:49-52 Ja-F '63. (MIKA 16:3)

1. Institut metallokeramiki i spetsial'nykh splavov AN UkrSSR.
(Liquid metals) (Graphite) (Adhesion)

ACCESSION NR: AT4030801

8/0000/63/000/000/0158/0166

AUTHOR: Naydich, Yu. V.; Kolesnichenko, G. A.

TITLE: A study of graphite and diamond wetting by liquid metals

SOURCE: AN UkrSSR. Institut metallokeramiki i spetsial'nykh splavov. Poverkhnostnye yavleniya v rasplavakh i protsessakh poroshkovoy metallurgii (Surface phenomena in liquid metals and processes in powder metallurgy). Kiev, Izd-vo AN UkrSSR, 1963, 159-166

TOPIC TAGS: graphite, diamond, transition element, adhesion active element, wetting agent, wetting agent alloying, liquid phase contact behavior, metal wetting

ABSTRACT: High-purity graphite linings and domestic diamond crystals (1 to 2 carats, Yakut bed) were studied in a purified hydrogen atmosphere or a vacuum (10^{-5} mm Hg) for wetting behavior of 22 elements (see Table 1 in the Enclosure) in the liquid phase. Results indicate that graphite and diamonds are subject to intensive wetting by all of the tested transition elements and a number of carbide-forming non-transition elements (Al, Si, B). Non-transition elements which do not form compounds with C do not wet the diamond or graphite surface. The wetting

Card 1/8

2

ACCESSION NR: AT4030801

is greatly enhanced by small admixtures of active transition metals (Cr, Ti, V) to inert non-transition elements (Cu, Ag, Sn, etc.), with adhesion at the interface increasing 5-10 times. Adhesion activeness and wettability are also estimated theoretically for numerous elements not subjected to experimental study.
Orig. art. has: 2 tables, 5 graphs, and 2 illustrations.

ASSOCIATION: Institut metallokeramiki i spetsial'nykh splavov AN UkrSSR, Kiev
(Institute of Powder Metallurgy and Special Alloys, AN UkrSSR)

SUBMITTED: 23Nov63

ENCL: 02

SUB CODE: MI, MM

NO REF Sov: 003

OTHER: 004

Card 2/4

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1"

ACCESSION NR: AP4040468

S/0226/64/000/003/0023/0028

AUTHOR: Naydich, Yu. V.; Kolesnichenko, G. A.

TITLE: Wetting of diamond and graphite by molten metals and alloys.
III. Wetting of diamond crystals

SOURCE: Poroshkovaya metallurgiya, no. 3(21), 1964, 23-28

TOPIC TAGS: diamond wetting, diamond wettability, diamond, molten metal wetting ability, surface active element, lanthanide, actinide

ABSTRACT: Wetting of diamond crystals by molten Cu, Ag, Au, Ge, Sn, In, Sb, Pb, Al, and by vacuum-melted alloys of Ti, Cr, and B with Cu, Sn, and Ag has been investigated. It was found that, as in the case of graphite, transition metals and nontransition elements Al and B which form stable carbides readily wet the diamond surface. The only observed exception is a Cu-2% B alloy which wets diamond at 1150°C (the contact angle = 35 deg after a 30 min exposure) but does not wet graphite. Al begins to wet diamond at 1000°C, making a contact angle of 75 deg after a 15-min exposure. Nontransition elements,

Card 1/3

ACCESSION NR: AP4040468

which do not form compounds with carbon do not wet diamond, but even small additions of transition metals, e.g., Cr and Ti, make them strong wetting agents. For example, addition of 0.3 and 0.5% Cr decreases the contact angle of Cu on diamond from 145 to 37 and 22 deg, respectively. Addition of Ti produces a similar effect. A 10% addition of Ti decreases the contact angle of Cu from 145 to 0 deg, addition of 1% Ti reduces the contact angle of Sn from 125 to about 10. deg, and addition of 2% Ti to a C-20% Sn alloy decreases its contact angle from 130 to 0 deg. On the basis of the data obtained it can be assumed that the transition elements with the least filled d- or f-levels, e.g., Sc, Zr, V, etc., will be the most surface-active elements in graphite or diamond wetting, and the elements of the group-VIII will be the least active. Of the nontransition elements, alkali-earth and, probably, alkali metals can be expected to be strong wetting agents. With respect to graphite and diamond, the same can be said of lanthanides and actinides. Orig. art. has: 5 figures and 2 tables.

Card 2 / 3

ACCESSION NR: AP4040468

ASSOCIATION: Institut problem materialovedeniya AN USSR (Institute
of Problems of the Study of Materials, AN USSR)

SUBMITTED: 24Dec62 ATE PRESS: 3050 ENCL: 00

SUB CODE: ME, MM NO REF SOV: 004 OTHER: 001

Card 3/3

L 21303-66 EWP(e)/EWT(m)/EPP(n)-2/EWP(t) IJP(c) JD/NW/JO/WH

ACC NR: AP6007293

SOURCE CODE: UR/0226/66/000/002/0097/0099

AUTHOR: Naydich, Yu. V.; Kolesnichenko, G. A.

ORG: Institute of Problems of Metal Science AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)

TITLE: Investigation of wetting of diamonds and graphite by fused metals and alloys.
IV. Effect of temperature on adhesion of metals inert to carbon

SOURCE: Poroshkovaya metallurgiya, no. 2, 1966, 97-99

TOPIC TAGS: diamond, graphite, liquid metal, Van der Waals force

ABSTRACT: The authors investigate the wetting of graphite with copper in the temperature range of 1100—1500°C and with gallium¹ at 100—1000°C, as well as the wetting of diamond with indium and lead at 300—1150°C in vacuum. The work of adhesion of these metals to diamond and graphite is calculated for all temperatures. It is shown that the marginal angles θ and the work of adhesion W_a do not practically vary with temperature. The molar work of adhesion of the investigated liquid metals to diamond¹ and graphite is evidently due to forces of the Van der Waals type. Orig. art. has: 2 tables and 2 figures. [Author's abstract.]

SUB CODE: 11/ SUBM DATE: 16Jun65/ OIRG REF: 003/

Card 1/1

GEDOYAN, P.I.; KOLESNICHENKO, G.D.; KEYYAN, A.P.

Examination of the protein fractions of the blood serum
skin diseases by paper electrophoresis. Vest.derm. i ven.
no.9:29-34'62. (MIRA 16:7)
(BLOOD PROTEINS) (SKIN—DISEASES)
(PAPER ELECTROPHORESIS)

Kolesnichenko, G. V.

KOLESNICHENKO, G.V.

On the "Zapovit Lenina" Collective farm, Mauka i pered. op. v sel'-
khoz. 7 no.11:69-70 N '57. (MLRA 10:11)

1. Predsedatel' kolkhoza "Zapovit Lenina" Gulyay-Pol'skogo rayona Za-
porozhskoy oblasti.
(Zaporozh'ye Province--Collective farms)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1

KOLESNICHENKO, I.D., veterinarnyy vrach (Altayskiy kray)

Leptospirosis of cattle. Veterinariia 42 no.5:49 My '65.
(MIRA 18:6)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1"

D'YACHENKO,N.M.; KOLESNICHENKO, I.I.,professor.

Modification of sutures in a V-shaped resection of the lung.
Khirurgija no.10:81-83 O '55. (MIRA 9:2)

1. Iz kafedry fakul'tetskoy khirurgii (zav.-prof. I.I. Kolesnichenko)
Krasnoyarskogo meditsinskogo instituta)
(LUNGS, surg.
resection, V-shaped, suturing)
(SUTURES
in V-shaped resection of lung)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1

KOLESHNIKOV, I.T., inzh.

Bazop. truda v prop. 5 no.11:35-36 N '61.
(Blasting) (VTRA 14:11)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1"

KOLESNICHENKO, I.T.; METS, Yu.S.; POTAPOVA, L.G.

Using "zernogranulit" 80/20 underground. Vzryv. delo no.55/12;
98-114 '64. (MIRA 17:10)

KOLESNICHENKO, I.T.; BAKHAREVICH, N.S.; ALEKSANDROV, V.Ye.; SEVRIKOV,
V.V.

Using the E-6 explosive in Donets Basin mines. Vzryv. delo
no.55/12:126-131 '64.
(MIRA 17:10)

1. Meshduvedomstvennaya komissiya po vzryvnому delu.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1

KOLESNICHENKO, I.T.; METS, Yu.S..

Analysis of the 80/20 B "zarnogramulit" and a new variety of
the C granulite. Met. i gornorud. prom. no.4:65-67 Jl-Ag '65.
(MIRA 18:10)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1"

KOLESNICHENKO, I.T., gornyy inzh.; METS, Yu.S., kand. tekhn. nauk

Charge of efficient design composed of loose explosive materials.
Gor. zhur. no.4:70-71 Ap.'65. (MIRA 18:5)

L 23993-66 EWT(m) WW/JWD

ACC NR: AP6004659

SOURCE CODE: UR/0127/65/000/010/0054/0056

AUTHOR: Kolesnichenko, I. T. (Engineer); Mets, Yu. S. (Engineer, Candidate of technical sciences)

ORG: none

44

39

TITLE: Industrial tests of AS-8 granulite and 79/21V granule-granulite underground

SOURCE: Gornyy zhurnal, no. 10, 1965, 54-56

TOPIC TAGS: underground explosion, test, solid explosive, explosive charge

ABSTRACT: Industrial underground explosive tests of a new brand of granulite (AS-8) and granule-granulite (79/21V) were conducted in 1963-1964 in several mines of the Krivorog Basin. These new brands of VV explosives are oxygen-balanced large-grain powders convenient for the pneumatic charging of mine shafts. Their explosion characteristics are as high a ammonite No. 6 (see Table 1). It is shown that the detonation of granule-granulite and ammonite No. 6 produces an almost identical quantity of toxic gases, and that AS-8 produces less. The individual experiments in the mine shafts and some of their results are presented and discussed. Orig. art. has: 3 tables.

Card 1/2

UDC: 622.235.2:622.272

L 23993-66

ACC NR: AP6004659

Table 1. Experimental explosive characteristics of VV.

2

Indexes	79/21V Granule-		
	AS-8 Granulite	granu- lite	Ammonite No. 6
a) Энергия взрыва, ккал/кг	1140	990	1000
b) Рабочеспособность, см ³	420—440	360—370	360—380
c) Скорость детонации, км/сек	3,0—3,5	3,2—3,6	3,6—4,2
d) Критический диаметр открытого заряда, мм	70—100	30—60	10—12

- a) Explosion energy, kcal/kg; b) Efficiency, cm³; c) Detonation velocity, km/sec;
 d) Critical diameter of open charge, mm

SUB CODE: 19 / SUBM DATE: none

Card 2/2 phw

ACC NR: AP6035660

(A)

SOURCE CODE: UR/0127/66/000/011/0047/0049

AUTHORS: Mats, Yu. S. (Candidate of technical sciences); Kolesnichenko, I. T. (Engineer)

ORG: none

TITLE: Detonating charges for priming low-sensitivity explosive materials

SOURCE: Gornyy zhurnal, no. 11, 1966, 47-49

TOPIC TAGS: reliability, detonation, toluene, explosive charge, explosive, underground explosion

ABSTRACT: The results from a study involving the effectiveness of detonating charges are given. The work was done to increase the reliability of charge detonation in boreholes in the open-pit mines of the Krivoy Rog Basin. The following detonating charges were tested: T-300, T-400, TP-400, TT-500, TT-1800, TG-300, TL-300, and LZ-2600. The completeness of detonation and the volume of the funnel in the ground were determined. It was found that the trotyl-tetryl and trotyl-hexogene detonators (TT-500, TT-1800, and TG-300) were promising. They have high power for their comparatively low weight and are more sensitive to detonation than pressed and poured trotyl charges and are more reliable. Orig. art. has: 2 tables and 1 diagram.

SUB CODE: 19-~~xx~~/ SUBM DATE: none

Card 1/1

UDC: 622.235.411

ACC NR: AT7000720

(N)

SOURCE CODE: UR/0000/66/000/000/0169/0184

AUTHOR: Kolesnichenko, K. A. (Engineer); Abramov, Ye. I. (Engineer)

ORG: none

TITLE: Performance stabilization of some slide-valve-type hydraulic governors

SOURCE: Ukraine. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya. Gidroprivod i gidropnevmoavtomatika (Hydraulic drive and hydropneumatic automation), no. 2. Kiev, Izd-vo Tekhnika, 1966, 169-184.

TOPIC TAGS: hydraulic engineering, hydraulic equipment, hydraulic fluid, flow analysis, VALVE

ABSTRACT: The performance stabilization of some hydraulic governors by means of a specially designed slide-valve mechanism is discussed, and a method is proposed by which the reactive-flow intensity and the spring-resilience effects on the slide valve remain constant over the entire range governed. The method is based on introducing specially profiled slits to provide a regular dependability of their free-passage variations on the slide-valve stroke and on spring resilience. In designing governors according to the proposed method, the flow rate and pressure drop in the throttle slit under individual operation conditions must be known. The method is applicable under working conditions where the

ACC NR: AT7000720

pressure drop is not necessarily related to a high increase in the flow rate. Performance stabilization is analyzed for a unidirectional action of the axial reactive-flow intensity, for the resilience of the spring, and for the case where they act in opposite directions. Wiring diagrams and examples of flow-rate checking devices and of overflow and main separators are demonstrated. Orig. art. has: 12 figures and 26 formulas.

SUB CODE: 13/ SUBM DATE: 29Jun66/ ORIG REF: 003

Cord 2/2

KOLESNICHENKO, K. YE.

82443

S/149/60/000/004/006/009

18.12.10

AUTHORS: Varich, N.I., Kolesnichenko, K.Ye.

TITLE: The Effect of High-Speed Cooling on the Structure and Properties of
Aluminum Alloys

PERIODICAL: Izvestiya vysashikh uchebnykh zavedeniy, Tsvetnaya metallurgiya, 1960,
No. 4, pp. 131-136

TEXT: V.I. Danilova and M.A. Levashevich (Ref. 1), Hofmann and Falkenhagen (Ref. 2) and Hahnemann and Schrade (Ref. 3) studied the effect of high-speed cooling on the strength of Al-base alloys. The authors investigated this effect on the structure and properties of binary Al-Cr and Al-Mn alloys. A crystallization rate of 50,000 degrees/sec was attained by catapulting the liquid melt (at 900°C) on a cold copper support. The crystallization rate was determined by an oscillograph. High-speed cooling makes it possible to obtain a number of solid Al-base solutions from the liquid state with a wider concentration range of some components than provided by the structural phase diagram. At a cooling rate of 50,000 degrees/sec the chromium content in the solid solution attains 5.7 weight %. At the same rate the maximum amount of manganese in the solid solution exceeds 10 weight %. High-speed cooled alloys, prepared in the form of thin plates, were tested on a special device built at the University laboratory. It was established that Al-base alloys

Card 1/2

ACCESSION NR: AT4017179

8/0000/63/000/000/0244/0250

AUTHOR: Varich, N. I. (Dnepropetrovsk); Koleenichenko, K. Ye. (Dnepropetrovsk)

TITLE: Effect of high crystallization rates on the structure and properties of thin films produced from a melt

SOURCE: AN SSSR. Fiz.-tekhn. institut. Teplofizika v liteynom proizvodstve (Thermal physics in the foundry industry). Minsk, 1963, 244-250

TOPIC TAGS: aluminum manganese alloy, aluminum chromium alloy, aluminum magnesium alloy, alloy film, metal crystallization, alloy film, metal crystallization, alloy film structure, film structure crystallization rate dependence, alloy structure cooling rate dependence, alloy electrical resistance, alloy hardness

ABSTRACT: Al-Mn, Al-Cr and Al-Mg alloys, produced by rapid cooling from a liquid state, were subjected to x-ray, metallographic and electric conductivity studies. The alloys, with up to 11% Mn, 5.7% Cr and 11% Mg, were cooled at a rate of 50,000°/sec by catapulting the liquid melt at 800-890 C onto a cold copper plate; this yielded 0.1-0.3-mm films. Rapid cooling was found to affect the density of the lattice electron cloud and to produce dendritic formations in the microstructure of alloys with up to 1% Mn, while

Card

1/2

ACCESSION NR: AT4017179

alloys with a higher percentage of Mn produced intracrystalline liquation. The microhardness of the films showed a steady and sharp increase up to 9% Mn in the solid solution and a microhardness maximum of 94 kg/mm² was attained for alloys with 5.7% Cr in the super saturated solid solution. A study of the relative paramagnetic susceptibility, used to determine the homogeneity of the solutions, indicated that a homogeneous solid solution, with less than 8% Mn and 2% Cr, crystallizes with a rapid cooling of the Al-Mn and Al-Cr solutions, respectively. In a test with an alloy of Al-Mg (11%), Be (0.12%), Zr (0.17%), and Ti (0.09%), to which 0.42, 0.80 and 1.32% Mn was added, Mn was found to inhibit the diffusion processes in the alloys markedly when its content was approximately 1%. The effect of Mn and heat treatment on the specific electrical resistance and thermal emf of the alloys was also studied and the results discussed. Orig. art. has: 1 figure and 5 graphs.

ASSOCIATION: Fiz.-tekhn. institut AN BSSR (Physicotechnical Institute, AN BSSR)

SUBMITTED: 19Apr63

DATE ACQ: 06Mar64

ENCL: 00

SUB CODE: ML

NO REF Sov: 002

OTHER: 001

2/2

Card

VARICH, N.I.; Burov, L.M.; Kolesnichenko, K.Ye.; Maksimenko, A.P.

Investigating strongly supersaturated Al-V, Al-Mo, and Al-W
solid solutions prepared with high rates of cooling. Fiz. met.
i metalloved. 15 no.2:292-295 F '63. (MIRA 16:4)

1. Dnepropetrovskiy gosudarstvennyy universitet.
(Aluminum alloys—Metallography)
(Solutions, Supersaturated—Cooling)

ACCESSION NR: AR4032178

S/0058/64/000/002/E005/E005

SOURCE: Ref. zh. Fiz., Abs. 2E33

AUTHORS: Mokhov, N. V., Kolesnichenko, K. Ye.

TITLE: On the polymorphism of liquids

CITED SOURCE: Nauchn. zap. Dnepropetr. un-t, v. 61, 1963, 54-57

TOPIC TAGS: liquid, polymorphism, salol, menthol, x-ray diffraction study, structural change, supercooled state, liquid dielectric

TRANSLATION: The results of an x-ray diffraction investigation of salol (from -30 to +90C) and menthol (from +24 to 90C) are presented and offer evidence that no considerable changes occur in the structures of these substances over the entire investigated range of states, including the supercooled state.

DATE ACQ: 31Mar64

SUB CODE: PH, CH

ENCL: 00

Card 1/1

VARICH, N.I.; BUROV, L.M.; KOLIB NICHENKO, K.Ye.

Effect of a third component on the physical properties of Al-Mn
alloys. Fiz. met. i metalloved. 18 no.3:396-400 S '64. (MIRA 17:11)

1. Dnepropetrovskiy gosudarstvennyy universitet.

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723730008-1

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CIA-RDP86-00513R000723730008-1

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1"

KOLESNICHENKO, A.F.

ZHMUDSKIY, A.Z. [Zhmuds'kyi, O.Z.]; MAKSYMUK, P.A. [Maksymiuk, P.O.]
KOLESNICHENKO, L.P.

Using internal friction in the study of aging copper-aluminum
alloys. Nauk povid. KDU no.1:37-38 '56. (MIRA 11:4)
(Copper--Aluminum alloys)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1"

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723730008-1"

ACCESSION NR: AP4043545

S/0020/64/157/004/0845/0848

AUTHORS: Kostetskiy, B. I.; Kolesnichenko, L. P.

TITLE: Effect of surface-active medium on the change of the crystalline fine structure of iron hardened by plastic deformation

SOURCE: AN SSSR. Doklady*, v. 157, no. 4, 1964, 845-848

TOPIC TAGS: surface active substance, fine structure, iron, metalworking, plastic deformation, strain hardening

ABSTRACT: The authors studied by methods of x-ray structural analysis the variation of the fine crystalline structure of technically pure iron hardened in an inactive and in surface-active media. The inactive medium used was pure non-polar mineral oil. In individual cases the change of the structure was investigated directly in air at room temperature. The absorption-active medium was pure mineral oil with 0.2% oleinic acid added. The strengthening produced by

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various types of plastic deformation was estimated by measuring the microhardness. The method of preparing the samples and taking the x-ray pictures is briefly described. The results have shown that in cold plastic deformation the individual characteristics of the fine structure and the hardness experience considerable changes in different media. The most intense strengthening in inactive media occurred at relatively small degrees of deformation (20--30%). The experiments show that at relatively small degrees of deformation, an intense fractionalization of the blocks takes place in different media. The rate of block reduction in an active medium is always higher than in an inactive medium. The smallest blocks are obtained at a deformation of 30% by rolling in an active medium, and further increase in the degree of deformation does not produce further reduction in the block size. In the region of high degrees of plastic deformation (~60%), introduction of the active medium reduces the hardness and increases the block dimensions. The net result of the study is that the change in the block structure following intro-

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duction of surface-active media is manifest in a greater crumbling of the blocks during the deformation. The lattice distortions are not sensitive to the surface active media. The previously observed correspondence between the hardness and the block dimensions remains the same when surface active substances are introduced, no matter what the degree of deformation. "The authors are grateful to Academician P. A. Rebinder for valuable advice and for participating in the discussion of the results." This report was presented by P. A. Rebinder. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Kiyevskiy institut grazhdanskogo vozduzhnogo flota
(Kiev Institute of Civilian Air Fleet)

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ENCL: 02

SUB CODE: SS, MM

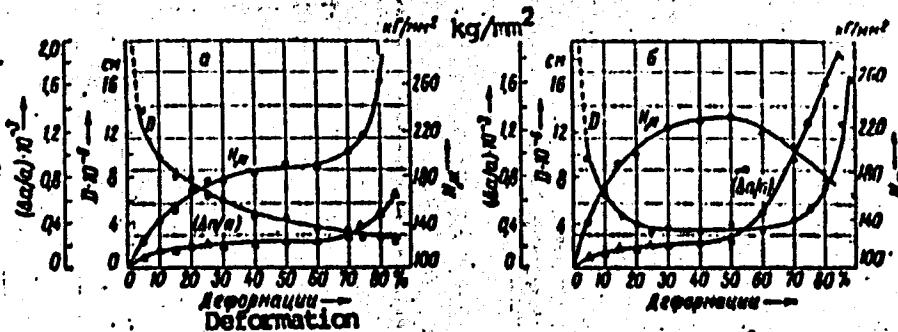
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ENCLOSURE 01

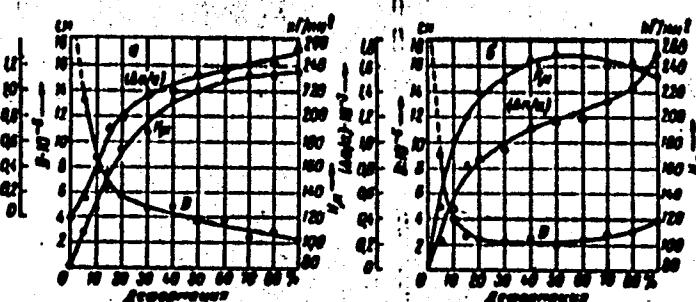


Change in characteristics of crystalline fine structure as a function of the degree of plastic deformation by compression in inactive (a) and active (b) media

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ENCLOSURE: 02



Change in characteristics of fine crystalline structure as function of degree of plastic deformation by rolling on rotating rollers in air (a) and in pure vaseline oil with 0.2% oleinic acid added (b)

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~~Lubricants. The changes brought about by surface movement under load are called plastic deformation.~~

~~The conditions of friction are considered to be the same as those in the case of solid materials.~~

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L 10323-67 ENT(d)/ENT(l)/ENT(m)/ENT(k)/ENT(h)/ENT(w)/ENT(v)/ENT(t)/ENT(l)/ETI IJP(c)
ACC NR: AP6020922 (A) EM/DJ/JD SOURCE CODE: UR/0369/66/002/002/0229/0230

AUTHOR: Kolesnichenko, L. F.

ORG: Kiev Institute of Civil Aviation Engineers (Kiyevskiy institut inzhenerov
grazhdanskoy aviatsii)

TITLE: Method and apparatus for studying the effects of lubricants on the condition
of the thin crystal structure of metal surfaces during friction loading

SOURCE: Fiziko-khimicheskaya mehanika materialov, v. 2, no. 2, 1966, 229-230

TOPIC TAGS: metal friction, surface property, milling machine, alloy, steel alloy/
6N11 milling machine, VK-4 alloy, ShKh15 steel alloy

ABSTRACT: Friction apparatus shown in Fig. 1 was developed to help the author study
the effects of lubricants on metal friction and wear. The apparatus is mounted on
the table (8) of a vertical milling machine (6N11). It consists of a dynamometer (5)
and bath (4) mounted on ball supports. The specimens (2 and 3) are loaded by specimen
holder (1) which is connected to the milling spindle. Surface temperatures can be
measured by thermocouples (7) and friction forces are determined by a strain-gage
instrumented beam (6). With the 6N11 milling machine, speeds of 0.24--6.5 m/sec and
loads of up to 1000 kg/cm² can be used. Specimens of alloy VK-4 and roller specimens
of steel ShKh15 were tested in active and inactive environments at 200 kg/cm² and at
1 m/sec, and the surface structure was studied on the same specimen after 5, 15, 30,

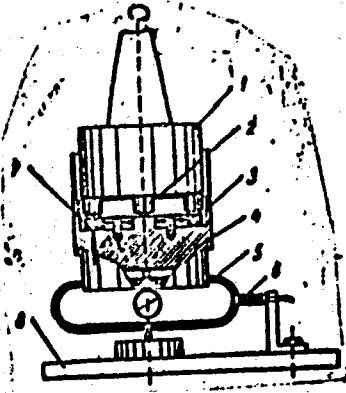
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ACC NR: AP6020922

Fig. 1. Experimental apparatus



60, 120, 180, and 300 hours of operation. No results are presented. Orig. art. has 1 figure.

SUB CODE: 11/ SUBM DATE: 11Nov64/ ORIG REF: 004

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D274/D303

AUTHORS: Afanas'yev, M.G., Gordiyenko, A.G., Kolisnychenko,
L.K., Vil'yams, A.P. and Sydorenko, I.I.

TITLE: Measurement and stabilization of the magnetic field
of a powerful electromagnet by the method of nucl-
ear magnetic resonance

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 5, no. 3, 1960,
319-325

TEXT: A device is described for measuring and stabilizing the
magnetic field of a d.c. electromagnet. The device has the advan-
tage (compared to earlier devices of this kind) of incorporating a
single pickup for measuring a wide range of values of the magnetic
field, and of stabilizing strong magnetic fields (up to 12.5 k oer-
sted). Magnetic fields of 2.5 to 12.5 k oerst. were investigated.
A basic diagram of the pickup is shown. Lithium (in a solution
of LiCl is used as the source of nuclear signals. The LiCl solution

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